Review

Name: _____Per. _____

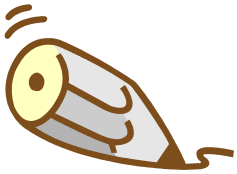
Find the reciprocal.

1. $-\frac{73}{-102}$ **2.** $\frac{-3}{987}$ **3.** $\frac{86}{89}$

4. A ball falls from a 545 foot building at a rate of $2\frac{4}{7}$ feet per second. Write an equation that describes distance *d* in feet the ball travels in *t* seconds. How long does it take the object to hit the ground?

Write an expression that is equivalent to the given expression, then solve and simplify.

5. $\frac{3}{8} \div \frac{1}{6} =$ **6.** $-\frac{7}{12} \div \frac{1}{6} =$ **7.** $\frac{9}{16} \div -\frac{1}{2} =$



5.5 Practice

Use the Distributive Property to simplify and then solve.

1. $-6\left(\frac{-1}{2}+7\right) =$

2. $-4(9.3-7) =$

3. $5\left(-\frac{6}{12}+3\right) =$

4. $-3\left(-1\frac{2}{3}-10\right) =$

5. $-3(1.4-9) =$

6. $\frac{4}{5}\left(2-1\frac{1}{5}\right) =$

7. $-3.5(-2)-3.9 =$

8. $-2.4(2.2+3) =$

9. $-5\left(\left(-1-\frac{1}{3}\right)-7\right) =$

7. Use the formula $F = \frac{9}{5}C + 32$ to convert $-15°C$ to degrees Fahrenheit.

8. Simplify the complex fraction $\frac{\frac{2}{5}}{\frac{6}{5}}$.

9. The water level of a pool evaporated $1\frac{1}{4}$ inches during a $2\frac{1}{2}$ week long period. Write a complex fraction to represent the average rate at which the water level changes every week. Then simplify the complex fraction.

10. Simplify the expression $\frac{3}{8}(-16)+1$.

11. A Styrofoam cup has a crack in the bottom and is leaking water. The cup loses $1\frac{5}{9}$ milliliters every 2 minutes. Write a complex fraction to find the change of the amount of water in the cup per minute. Simplify.

12. Simplify the complex fraction. $\frac{\frac{2}{3}}{\frac{1}{4}}$